

# MIDI DCB INTERFACE

# MD-8

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- The MD-8 is an interface that enables easy connection of the devices featuring the \*DCB standard and the \*\*MIDI standard. In other words, by using the MD-8, it is now made possible to set up the JP-8 or Juno-60 with the JX-3P or JP-6.

\* DCB: Digital Communication Bus

\*\* MIDI: Musical Instrument Digital Interface

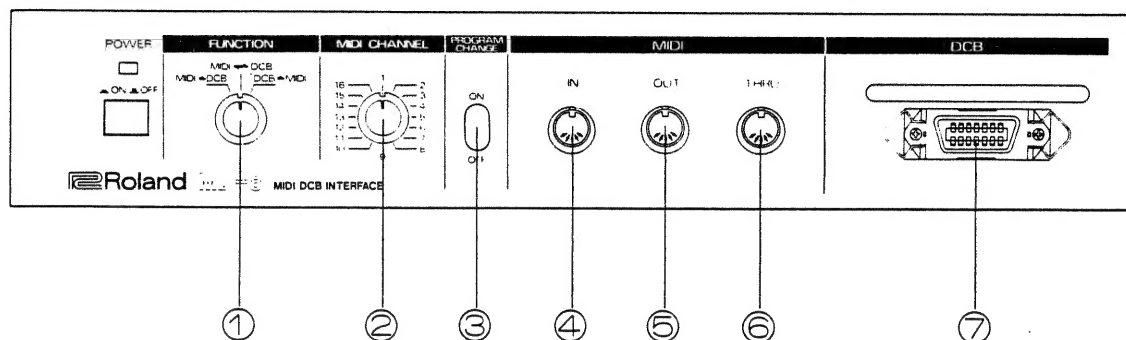
- **Information communicatable by the MD-8**

The information which can be transmitted and received between the MIDI and DCB keyboards are:

1. Keyboard information
2. Program Selections

If, however, using the Juno-60, only keyboard information can be communicated.

## Panel Description



### ① Function Switch

This is select in which direction the information is sent.

- MIDI → DCB: Information is sent from the DCB device to the MIDI device.
- MIDI ↔ DCB: Information is sent in both directions.
- MIDI ← DCB: Information is sent from the MIDI device to the DCB device.

### ② MIDI Channel Selector Switch

There are up to 16 channels available.

Refer to the enclosed leaflet, "What's the MIDI?" for the details of the MIDI Channels.

### ③ Program Change Switch

When this switch is set to the ON position, program selection information can be communicated.

### ④ MIDI IN Jack

### ⑤ MIDI OUT Jack

### ⑥ MIDI THRU Jack

The digital signal fed into the MIDI IN Jack will be output through this jack without processed at all.

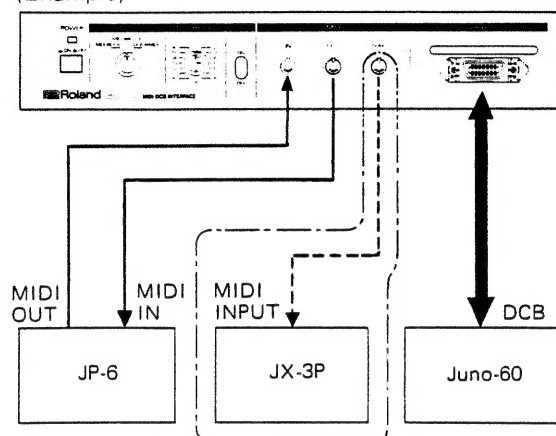
### ⑦ DCB Connector

## Important notices

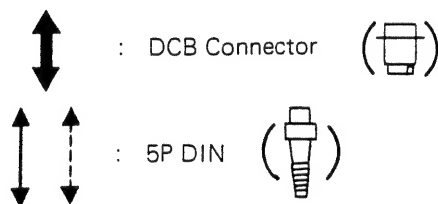
- Be sure to use the voltage shown on the Name Plate on the rear panel.
- The MD-8 may generate heat during operation, this is quite a normal situation caused by AC power, so there is nothing to worry about it.
- Please never disassemble the MD-8, even if it breaks down.
- If the MD-8 is not to be used for a long period of time, unplug the cord from the socket.
- Please do not pull the cord but hold the plug when disconnecting.
- Please avoid placing or dropping anything heavy on the Power Cable.
- Operating the MD-8 near a neon or fluorescent lamp may cause noise interference. If so, change the angle or the position of the MD-8.
- Avoid using the MD-8 in extreme heat, humidity or where it may be affected by dust.

## Connection

(Example)



\* This is controlled by the MIDI information from the JP-6. It, however, does not receive the DCB information from the Juno-60.



\* If your JP-8 features Flat Cable, optional DCB-Flat Cable (Code-No. 23485137) will be needed.

## Operation

Set the MIDI Channel Selector Switch to the appropriate position depending on the MIDI Channel number of the keyboard you use. Then set the Function Switch where you like. If program selection function is required for your playing the keyboard, turn the Program Change Switch on.

### ■ MIDI Channel Number of each keyboard

JX-3P, JP-6

(in the Whole mode, or Lower Section in the Split mode) → Channel 1

JP-6

(Lower Section in the Split mode) → Channel 2

### < NOTE >

\* The keyboard receiving information does not always react as the interface logic would lead.

Above is the basic of the MD-8. If you want further information of the MD-8, please read the following "Example Setting up".

## ■ OMNI Mode

- \* The MIDI-1.0, adopted by the JP-6, JX-3P and MD-8, allows reception of the MIDI data of all channels. (This is called OMNI mode.) This mode is cancelled if you play any key and release it, therefore, the connected keyboard comes to receive only the MIDI data from a specific channel.

## ■ Echo Back

The DCB and some MIDI keyboards have the characteristic called Echo Back, that is adding internal keyboard data to the input data, then simultaneously output both data. For instance, if the Juno-60 is controlled by the JP-6 and set to the Arpeggio mode, the JP-6 also plays Arpeggio. (The keys you play on the JP-6 will also sound.)

By changing the position of the Function Switch of the MD-8, you can remove such inconvenience as described above.

Also, if both the DCB and the MIDI devices have Echo Back characteristic, setting the Function Switch to the MIDI ↔ DCB position may turn them to oscillation. To avoid it, change the position of the Function Switch.

## ● Sample Setting up

### A JX-3P ↔ JUNO-60

Only keyboard information can be communicated. The maximum voices assigned are 6. The MIDI Channel Number is 1.

### B JP-6 ↔ JUNO-60

Only keyboard information can be communicated. Maximum voices assigned are 6 on both keyboards, but if the JP-6 is in the Split mode, how the slave keyboard react varies depending on the position of the MIDI Channel Switch. (The master keyboard will act normally.)

MD-8 Channel Setting JP-6 Key Mode	Channel 1	Channel 2
SPLIT-1	2 voices on the UPPER Section	4 voices on the LOWER Section
SPLIT-2	4 voices on the UPPER Section	2 voices on the LOWER Section

### C JX-3P ↔ JP-8

Keyboard information and program selections can be communicated. All the maximum voices of each keyboard can be assigned. In other words, if you play the JP-8, up to 6 notes can simultaneously sound on the JX-3P, and if playing the JX-3P, up to 8 notes on the JP-8 can be heard at a time. If you play the JP-8 in the Dual mode, the JX-3P is turned to 4 voices.

## D JP-6 ↔ JP-8

Keyboard information and program selections can be communicated. All the maximum voices of each keyboard are fully assigned, but there will be different reaction if the JP-6 is in the Split mode or JP-8 is in the Dual or Split mode.

\* If more keys than its maximum voices are played on the master keyboard, it is not predictable which notes will sound on the slave keyboard. So it may be better to avoid it.

\*The table below shows how many voices are assigned.

Slave Keyboard Master Keyboard		JP-8		
		WHOLE	DUAL	SPLIT
JP-6	WHOLE	Up to 8 voices	Up to 4 voices	Up to 4 voices on the UPPER Section, and after the 5th on the LOWER.
	SPLIT-1	Up to 8 voices when the UPPER (LOWER) Section is played.	Up to 4 voices when the UPPER (LOWER) Section is played.	The result is just like above, when the UPPER (LOWER) Section is played.
	SPLIT-2	There is no key sounded on the LOWER (UPPER) Section.	There is no key sounded on the LOWER (UPPER) Section.	If the LOWER Section is played, no sound is heard.

( ) is when the MIDI Channel Selector Switch is set to "2".

Slave Keyboard Master Keyboard		JP-6		
		WHOLE	SPLIT-1	SPLIT-2
JP-8	WHOLE	Up to 6 voices	Up to 2 voices in the UPPER Section. (Up to 4 voices if playing only the LOWER Section.)	4 voices if only the UPPER Section is played. (2 voices if only the LOWER Section is played).
	DUAL	Up to 4 voices		
	SPLIT	Up to 4 voices when UPPER Section is played. Up to 4 voices when the LOWER Section is played. Up to 6 voices when both sections are simultaneously played.	Up to 2 voices (4 voices) if playing the UPPER Section. Up to 2 voices (4 voices) if the LOWER Section is played. Up to 2 voices (4 voices) if the both sections are simultaneously played.	Up to 4 voices (2 voices) if the UPPER is played. Up to 4 voices (2 voices) if the LOWER is played. Up to 4 voices (2 voices) if both sections are simultaneously played.

( ) is when the MIDI Channel Selector Switch is set to "2".

## Program Selections

When the JP-6 (or JX-3P) and JP-8 are set up, patch selections between these keyboards are possible.

\* This program selection function can be turned on or off with the Program Change Switch on the MD-8.

\* It is no good selecting any other patch but A-1 to A-8 of the JP-6 or JX-3P, as it has no effect on JP-8's patch selections.

JP-6		JP-8		JX-3P	
Patch Preset	A-1	Patch Preset	A	Patch Memory	A-1
	A-2		B		A-2
	A-3		C		A-3
	A-4		D		A-4
	A-5		E		A-5
	A-6		F		A-6
	A-7		G		A-7
	A-8		H		A-8

## Specifications

### MD-8 • MIDI-DCB Interface

#### < Switch >

Function Switch  
(DCB → MIDI, MIDI ↔ DCB, MIDI ← DCB)  
MIDI Channel Selectors (1 to 16)  
Program Change (ON/OFF)  
Power

#### < Connector >

MIDI: 3 (IN, OUT, THROUGH)  
DCB: 1 (IN-OUT)  
AC IN

**Power:** AC 117, 220, 240 V

**Consumption:** 8W

**Dimensions:** 355(W) x 75(H) x 195(D) mm  
14(W) x 2-15/16(H) x 7-11/16(D) in

**Weight:** 2.5 kg/5 lb 8 oz

**Accessories:** Power Cable: 1  
MIDI Cable (5P DIN) 3m: 2  
DCB Cable 3m: 1

\*Specifications are subject to change without notice.

#### < Option >

DCB-Flat Cable

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